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PATENT  
P56641

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KYUNG-SOO YOO

Serial No.: 10/046,239

Examiner: TUAN V. HO

Filed: 16 January 2002

Art Unit: 2615

For: PHOTOGRAPHING APPARATUS HAVING FUNCTION OF PREVENTING BLUR  
OF STILL IMAGE

**PETITION UNDER 37 C.F.R. §1.181**

**Paper No. 6**

**Mail Stop : Post Allowance**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Applicant respectfully petitions from the failure of the Examiner in a Notice of Allowability (PTOL-37, Paper No. 09172005) mailed on 22 September 2005 to acknowledge claim 20 on Paper No. 09172005 and respectfully requests correction of Paper No. 09172005 in confirmation of claim 20, and as reasons therefore, states that:

Folio: P56641

Date: 9/30/05

I.D.: REB/ms

Enclosures: 1) Copy of Amendment filed on 19 August 2005  
2) Copy of Notice of Allowability (PTOL-37, Paper No. 09172005) mailed on 22 September 2005

**STATEMENT OF FACTS**

1. On 16 January 2002, Applicant filed a new application containing twenty claims, claims 1-20 in the U.S. Patent & Trademark Office for the above-referenced patent application.
2. On 19 August 2005, Applicant's undersigned attorney filed an Amendment cancelling claim 2 without prejudice or disclaimer of its subject matter and adding claims 21-23, thereby increasing the total number of the pending claims to twenty-two (22), namely claims 1 and 3-23.
3. On 22 September 2005, a Notice of Allowance and Notice of Allowability (Paper No. 09172005) was issued. In the Notice of Allowability, at item #2, the allowed claims were indicated, *in error*, as "1, 3-9, 10, 11-16, 17-19 and 21-23 (renumbered as 1-21 respectively)."

**REMARKS**

Throughout the prosecution of the application, claim 2 is the only claim which was canceled and claims 21-23 were added by amendment. Accordingly, indication of allowed claim in item #2 of the Notice of Allowability as "1, 3-9, 10, 11-16, 17-19 and 21-23 (renumbered as 1-21 respectively)" was in error, and should be corrected as "1 and 3-23 (renumbered as 1-22 respectively)."

**RELIEF REQUESTED**

In view of the above, the Commissioner is respectfully requested to direct the Examiner to:

- A. Correct the indication of the allowed claim in the Notice of Allowability (PTOL-37, No.09172005) dated 22 September 2005 to read "1 and 3-23 (renumbered as 1-22 respectively)."
- B. Issue a Supplemental Notice of Allowability setting forth the correct allowed claims as "1 and 3-23 (renumbered as 1-22 respectively)."
- C. Grant such other and further relief as justice may require.

Respectfully submitted,



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Folio: P56641  
Date: 9/30/05  
I.D.: REB



PATENT  
P56641

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KYUNG-SOO YOO

Serial No.: 10/046,239

Examiner: TUAN V. HO

Filed: 16 January 2002

Art Unit: 2615

For: PHOTOGRAPHING APPARATUS HAVING FUNCTION OF PREVENTING  
BLUR OF STILL IMAGE

AMENDMENT

Paper No. 5

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the first Office action mailed on 23 May 2005 (Paper No. 05162005), entry of the following amendments and remarks, re-examination and reconsideration are respectfully requested.

Folio: P56641  
Date: 8/19/05  
I.D.: REB/JGS/kf/hp

IN THE CLAIMS

Please cancel claim 2 without prejudice or disclaimer, amend claims 1, 3, 10, 11 and 17, and add claims 21 thru 23, as follows:

1           1. (Currently Amended)    A photographing apparatus having a function of  
2 preventing a blur of a still image, the apparatus comprising:  
3           a photoelectric transduction unit for photoelectrical-transducing incident light  
4 from a lens;  
5           a pulse generation unit for outputting a charge extract pulse for extracting charge  
6 accumulated in the photoelectric transduction unit, and an erase pulse for erasing the  
7 accumulated charge;  
8           a diaphragm unit for controlling an amount of light incident on the photoelectric  
9 transduction unit;  
10          a diaphragm driving unit for controlling an open/close operation of the diaphragm  
11 unit; and  
12          a control unit for outputting, to the diaphragm driving unit, a first control signal to  
13 supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to  
14 the diaphragm driving unit, a second control signal to supply the driving voltage in a  
15 direction of closing the diaphragm unit, and for controlling the operation of the  
16 photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit;  
17          wherein the diaphragm driving unit comprises:

18        a diaphragm motor for opening and closing the diaphragm unit by imparting  
19        a rotational movement generated by a magnetic field to the diaphragm unit; and  
20        a diaphragm motor driving unit for controlling a direction of rotation and a  
21        speed of the diaphragm motor; and  
22        wherein the diaphragm motor comprises:  
23                a rotor connected to the diaphragm unit, and rotated in at least one of a  
24                forward direction and a backward direction under control of the diaphragm motor  
25                driving unit;  
26                an elastic member having one end connected to a fixed point and another  
27                end connected to the rotor for rotating the rotor in a direction for closing the  
28                diaphragm unit;  
29                a driving coil for generating a magnetic field to cause a rotational  
30                movement of the rotor in at least one of a direction for opening and a direction for  
31                closing the diaphragm unit; and  
32                damping means for preventing damping of the rotor.

Claim 2. (Canceled)

1        3. (Currently Amended) The apparatus according to claim [[2]] 1, wherein the  
2        ~~diaphragm motor comprises:~~  
3        ~~a rotor connected to the diaphragm unit, and rotated in at least one of a forward~~

4 ~~direction and a backward direction under control of the diaphragm motor driving unit;~~

5 ~~an elastic member having one end connected to a fixed point and another end~~  
6 ~~connected to the rotor for rotating the rotor in a direction for closing the diaphragm unit;~~

7 ~~a driving coil for generating a magnetic field to cause a rotational movement of the~~  
8 ~~rotor in at least one of a direction for opening and a direction for closing the diaphragm~~  
9 ~~unit; and~~

10 damping means, ~~including~~ includes a damping coil, a switch connected to said  
11 damping coil, and a damping resistance connected to said switch; ~~for preventing damping~~  
12 ~~of the rotor.~~

1 4. (Original) The apparatus according to claim 3, wherein the diaphragm motor  
2 driving unit comprises:

3 an input voltage terminal unit having one end for receiving a reference potential  
4 signal and another end for receiving a diaphragm control signal; and

5 a voltage conversion unit for converting an input voltage from the input voltage  
6 terminal unit into a driving voltage of the diaphragm motor;

7 wherein the control unit outputs the first control signal for varying the diaphragm  
8 control signal to form the driving voltage in the driving coil in a direction for closing the  
9 diaphragm unit, and outputs the second control signal for opening the switch of the  
10 damping means when closing the diaphragm unit.

1           5. (Original) The apparatus according to claim 4, wherein the varied diaphragm  
2 control signal is supplied until the operation of extracting the charge accumulated in the  
3 photoelectric transduction unit is completed according to the charge extract pulse from  
4 the pulse generation unit.

1           6. (Original) The apparatus according to claim 4, wherein the varied diaphragm  
2 control signal causes an initial value of the driving voltage to be higher than a final value  
3 of the driving voltage for a predetermined period of time after a start time of the close  
4 operation of the diaphragm unit.

1           7. (Original) The apparatus according to claim 3, wherein the diaphragm motor  
2 driving unit comprises:

3           an input voltage terminal unit having one end for receiving a reference potential  
4 signal and another end for receiving a diaphragm control signal;

5           a voltage conversion unit for converting an input voltage from the input voltage  
6 terminal unit into a driving voltage of the diaphragm motor; and

7           a switch unit for varying a voltage supplied from the voltage conversion unit to the  
8 diaphragm motor according to a short operation, and for supplying the driving voltage to  
9 the diaphragm motor to alternately open and close the diaphragm unit;

10          wherein the control unit outputs a switching control signal to the switch unit,  
11 thereby outputting a control signal for supplying, to the diaphragm unit, the driving



12 voltage for closing the diaphragm unit by inverting the driving voltage supplied to the  
13 diaphragm motor in opening the diaphragm unit when closing the diaphragm unit, and for  
14 outputting a control signal for opening the switch connected to the damping coil when  
15 supplying the driving voltage to close the diaphragm unit.

1 8. (Original) The apparatus according to claim 7, wherein the driving voltage for  
2 closing the diaphragm unit is supplied until the operation of extracting the charge  
3 accumulated in the photoelectric transduction unit is completed according to the charge  
4 extract pulse from the pulse generation unit.

1 9. (Original) The apparatus according to claim 8, wherein the driving voltage  
2 has an initial value higher than a final value, and is a step signal which maintains the  
3 initial value for a predetermined period of time.

1 10. (Currently Amended) ~~[[The]] A photographing apparatus according to claim~~  
2 ~~1, further comprising~~ having a function of preventing a blur of a still image. the apparatus  
3 comprising:

4 a photoelectric transduction unit for photoelectrical-transducing incident light  
5 from a lens;

6 a pulse generation unit for outputting a charge extract pulse for extracting charge  
7 accumulated in the photoelectric transduction unit. and an erase pulse for erasing the

8 accumulated charge:

9 a diaphragm unit for controlling an amount of light incident on the photoelectric  
10 transduction unit:

11 a diaphragm driving unit for controlling an open/close operation of the diaphragm  
12 unit:

13 a control unit for outputting, to the diaphragm driving unit, a first control signal to  
14 supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to  
15 the diaphragm driving unit, a second control signal to supply the driving voltage in a  
16 direction of closing the diaphragm unit, and for controlling the operation of the  
17 photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit:  
18 and

19 a photographing mode switching unit for switching between a still image mode  
20 and a motion picture mode, wherein the control unit outputs a control signal for supplying  
21 the driving voltage for closing the diaphragm unit when the photographing mode  
22 switching unit is switched to the still image mode.

1 11. (Currently Amended) ~~[[The]]~~ A photographing apparatus according to claim  
2 1, further comprising: having a function of preventing a blur of a still image, the  
3 apparatus comprising:

4 a photoelectric transduction unit for photoelectrical-transducing incident light  
5 from a lens:

6           a pulse generation unit for outputting a charge extract pulse for extracting charge  
7           accumulated in the photoelectric transduction unit, and an erase pulse for erasing the  
8           accumulated charge;

9           a diaphragm unit for controlling an amount of light incident on the photoelectric  
10          transduction unit;

11          a diaphragm driving unit for controlling an open/close operation of the diaphragm  
12          unit;

13          a control unit for outputting, to the diaphragm driving unit, a first control signal to  
14          supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to  
15          the diaphragm driving unit, a second control signal to supply the driving voltage in a  
16          direction of closing the diaphragm unit, and for controlling the operation of the  
17          photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit;

18          an electronic shutter unit for controlling an amount of the charge accumulated in  
19          the photoelectric transduction unit by varying a potential barrier value of the  
20          photoelectric transduction unit;

21          a lookup table unit for recording compensation values of an electronic shutter  
22          speed corresponding to variations of the close time of the diaphragm unit on the basis of  
23          the electronic shutter speed set up for a reference close time from an open state to a close  
24          state of the diaphragm unit; and

25          a measuring unit for measuring the close time of the diaphragm unit, wherein the  
26          control unit outputs to the electronic shutter unit a control signal for varying the

27 electronic shutter speed by as much as the compensation value recorded in the lookup  
28 table unit according to a difference between the close time measured in the measuring  
29 unit and the reference close time.

1 12. (Original) The apparatus according to claim 11, wherein the diaphragm  
2 driving unit comprises:

3 a diaphragm motor for opening and closing the diaphragm unit by imparting a  
4 rotational movement generated by a magnetic field to the diaphragm unit; and

5 a diaphragm motor driving unit for controlling a direction of rotation and a speed  
6 of the diaphragm motor.

1 13. (Original) The apparatus according to claim 12, wherein the diaphragm  
2 motor comprises:

3 a rotor connected to the diaphragm unit, and rotated in at least one of a forward  
4 direction and a backward direction under control of the diaphragm motor driving unit;

5 an elastic member having one end connected to a fixed point and another end  
6 connected to the rotor for rotating the rotor in a direction for closing the diaphragm unit;

7 a driving coil for generating a magnetic field to cause a rotational movement of the  
8 rotor in at least one of a direction for opening and a direction for closing the diaphragm  
9 unit; and

10 damping means, including a damping coil, a switch connected to said damping

11 coil, and a damping resistance connected to said switch, for preventing damping of the  
12 rotor.

1 14. (Original) The apparatus according to claim 12, wherein the diaphragm  
2 motor driving unit comprises:

3 an input voltage terminal unit having one end for receiving a reference potential  
4 signal and another end for receiving a diaphragm control signal; and

5 a voltage conversion unit for converting an input voltage from the input voltage  
6 terminal unit into a driving voltage of the diaphragm motor;

7 wherein the control unit outputs the first control signal for varying the diaphragm  
8 control signal to form the driving voltage in the driving coil in a direction for closing the  
9 diaphragm unit, and outputs the second control signal for opening the switch of the  
10 damping means when closing the diaphragm unit.

1 15. (Original) The apparatus according to claim 14, wherein the varied  
2 diaphragm control signal is supplied until the operation of extracting the charge  
3 accumulated in the photoelectric transduction unit is completed according to the charge  
4 extract pulse from the pulse generation unit.

1 16. (Original) The apparatus according to claim 14, wherein the varied  
2 diaphragm control signal causes an initial value of the driving voltage to be higher than a

final value of the driving voltage for a predetermined period of time after a start time of the close operation of the diaphragm unit.

17. (Currently Amended) ~~[[The]]~~ A photographing apparatus according to claim 14, having a function of preventing a blur of a still image, the apparatus comprising:

a photoelectric transduction unit for photoelectrical-transducing incident light from a lens;

a pulse generation unit for outputting a charge extract pulse for extracting charge accumulated in the photoelectric transduction unit, and an erase pulse for erasing the accumulated charge;

a diaphragm unit for controlling an amount of light incident on the photoelectric transduction unit;

a diaphragm driving unit for controlling an open/close operation of the diaphragm unit; and

a control unit for outputting, to the diaphragm driving unit, a first control signal to supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to the diaphragm driving unit, a second control signal to supply the driving voltage in a direction of closing the diaphragm unit, and for controlling the operation of the photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit;

wherein the diaphragm motor driving unit comprises:

an input voltage terminal unit having one end for receiving a reference

19 potential signal and another end for receiving a diaphragm control signal;

20 a voltage conversion unit for converting the input voltage from the input  
21 voltage terminal unit into a driving voltage of the diaphragm unit; and

22 a switch unit for varying a voltage supplied from the voltage conversion  
23 unit to the diaphragm motor according to a short operation, and for supplying the  
24 driving voltage to the diaphragm motor to alternately open and close the  
25 diaphragm unit;

26 wherein the control unit outputs a switching control signal to the switch unit,  
27 thereby outputting a control signal for supplying to the diaphragm driving unit the  
28 driving voltage for closing the diaphragm unit by inverting the driving voltage supplied  
29 to the diaphragm motor in opening the diaphragm unit, and for outputting a control signal  
30 for opening the switch connected to the damping coil when supplying the driving voltage  
31 to close the diaphragm unit.

1 18. (Original) The apparatus according to claim 17, wherein the driving voltage  
2 for closing the diaphragm unit is supplied until the operation of extracting the charge  
3 accumulated in the photoelectric transduction unit is completed according to the charge  
4 extract pulse from the pulse generation unit.

1 19. (Original) The apparatus according to claim 18, wherein the driving voltage  
2 has an initial value higher than a final value, and is a step signal which maintains the

3 initial value for a predetermined period of time.

1           20. (Original)    The apparatus according to claim 11, further comprising a  
2   photographing mode switching unit for switching between a still image mode and a  
3   motion picture mode, and wherein, when the photographing mode switching unit is set up  
4   in the still image mode, the control unit outputs a control signal for supplying the driving  
5   voltage for closing the diaphragm unit.

1           21. (New)    A photographing apparatus having a function of preventing a blur of a  
2   still image, the apparatus comprising:

3           a photoelectric transduction unit for photoelectrical-transducing incident light  
4   from a lens;

5           a pulse generation unit for outputting a charge extract pulse for extracting charge  
6   accumulated in the photoelectric transduction unit, and an erase pulse for erasing the  
7   accumulated charge;

8           a diaphragm unit for controlling an amount of light incident on the photoelectric  
9   transduction unit;

10          a diaphragm driving unit for controlling an open/close operation of the diaphragm  
11   unit; and

12          a control unit for outputting, to the diaphragm driving unit, a first control signal to  
13   supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to



14 the diaphragm driving unit, a second control signal to supply the driving voltage in a  
15 direction of closing the diaphragm unit, and for controlling the operation of the  
16 photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit;

17 wherein the diaphragm driving unit comprises:

18 a diaphragm motor for opening and closing the diaphragm unit by imparting  
19 a rotational movement generated by a magnetic field to the diaphragm unit; and

20 a diaphragm motor driving unit for controlling a direction of rotation and a  
21 speed of the diaphragm motor;

22 wherein the a diaphragm motor driving unit comprises:

23 an input voltage terminal unit having one end for receiving a reference  
24 potential signal and another end for receiving a diaphragm control signal; and

25 a voltage conversion unit for converting an input voltage from the input  
26 voltage terminal unit into a driving voltage of the diaphragm motor; and

27 wherein the control unit outputs the first control signal for varying the diaphragm  
28 control signal to form the driving voltage in the driving coil in a direction for closing the  
29 diaphragm unit, and outputs the second control signal for opening the switch of the  
30 damping means when closing the diaphragm unit.

1 22. (New) The apparatus according to claim 21, wherein the varied diaphragm  
2 control signal is supplied until the operation of extracting the charge accumulated in the  
3 photoelectric transduction unit is completed according to the charge extract pulse from

4 the pulse generation unit.

1 23. (New) The apparatus according to claim 21, wherein the varied diaphragm  
2 control signal causes an initial value of the driving voltage to be higher than a final value  
3 of the driving voltage for a predetermined period of time after a start time of the close  
4 operation of the diaphragm unit.

**REMARKS**

The Office action of 23 May 2005 (Paper No. 05162005) has been carefully considered.

Claim 2 is being canceled without prejudice or disclaimer, claims 1, 3, 10, 11 and 17 are being amended, and new claims 21 thru 23 are being added. Thus, claims 1 and 3 thru 23 are pending in the application.

In paragraph 1 of the Office action, the Examiner rejected claims 1 and 2 under 35 U.S.C. §102 for alleged anticipation by Kudo *et al.*, U.S. Patent No. 5,517,243. In paragraph 2 of the Office action, claims 3 thru 20 are objected to for dependency upon a rejected base claim, but the Examiner stated that these claims would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. For the reasons stated below, it is submitted that the invention recited in the claims, as now amended, is distinguishable from the prior art cited by the Examiner so as to preclude rejection under 35 U.S.C. §102 or §103.

Independent claim 1 is being amended to include the recitations from dependent claim 2 and a major portion of dependent claim 3. Thus, independent claim 1 not only recites the details of the diaphragm driving unit from dependent claim 2, but also recites the diaphragm motor as comprising the combination of a rotor, an elastic member, a driving coil, and damping means for preventing damping of the rotor, as recited in dependent claim 3.

It is noted that independent claim 1 does not recite that portion of dependent claim 3 which sets forth the damping means as including a damping coil, a switch connected to the damping coil, and a damping resistance connected to the switch. It is submitted that the detailed recitation of the damping means is not essential to patentability of independent claim 1, as now amended.

In the latter regard, it is respectfully submitted that independent claim 1, as now amended, is distinguishable from the prior art so as to preclude rejection under 35 U.S.C. §102 or §103. Specifically, the prior art does not disclose or suggest a diaphragm driving unit comprising the combination of a diaphragm motor and a diaphragm motor driving unit, as previously recited in claim 2, and does not disclose or suggest a diaphragm motor comprising the combination of a rotor, an elastic member, a driving coil and damping means, as previously recited in claim 3. It is also noted that, in paragraph 2 of the Office action, the Examiner indicated that dependent claim 3 recited patentable subject matter. Accordingly, for that reason, and for the reasons set forth above, it is submitted that independent claim 1 and its associated dependent claims are now in condition for allowance.

In paragraph 2 of the Office action, the Examiner indicated that dependent claims 10, 11 and 17 each recited allowable subject matter, and were merely objected to for dependency upon a rejected base claim. Accordingly, dependent claims 10, 11 and 17 are being amended to appear in independent form, and allowance of independent claims 10 and 11 (as well as associated dependent claims) should now be forthcoming.

Independent claim 21 and associated dependent claims 22 and 23 are being added to provide additional protection of the invention. Specifically, independent claim 21 comprises a combination of the recitations of original independent claim 1 and original dependent claims 2 and 4 without the recitation of original dependent claim 3. It is respectfully submitted that the invention, as recited in independent claim 21, is distinguishable from the prior art so as to preclude rejection under 35 U.S.C. §102 or §103.

Specifically, the prior art does not disclose or suggest a photographing apparatus comprising the combination of a photoelectric transduction unit, a pulse generation unit, a diaphragm unit, a diaphragm driving unit, and a control unit as recited in original independent claim, wherein the diaphragm driving unit comprises the combination of a diaphragm motor and a diaphragm motor driving unit as recited in original dependent claim 2, and wherein the diaphragm motor driving unit comprises the combination of an input voltage terminal and a voltage conversion unit, wherein the control unit outputs first and second control signals having the characteristics recited in original dependent claim 4, and now recited in new independent claim 21. Thus, allowance of independent claim 21 and associated dependent claims 22 and 23 should now be forthcoming.

In view of the above, it is submitted that the claims of this application are in condition for allowance, and early issuance thereof is solicited. Should any questions remain unresolved, the Examiner is requested to telephone Applicant's attorney.

A fee of \$500.00 is incurred by the addition of two (2) independent claims in excess of 3 and two (2) total claims in excess of total 20. Applicant's check drawn to the order of Commissioner accompanies this Amendment. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Respectfully submitted,

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Folio: P56641  
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I.D.: REB/JGS



Application No.

10/046,239

Examiner

Tuan V. Ho

Applicant(s)

YOO, KYUNG-SOO

Art Unit

2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendments filed on 8/19/05.
2. ☒ The allowed claim(s) is/are 1, 3-9, 10, 11-16, 17-19 and 21-23 (renumbered as 1-21 respectively).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_